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TRANSLATION

ATLAS OF THE USSR

By

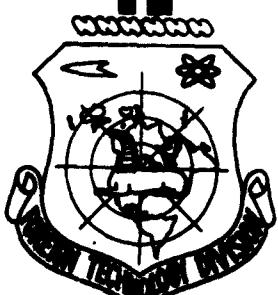
F. M. Kozlov

FOREIGN TECHNOLOGY DIVISION

AIR FORCE SYSTEMS COMMAND

WRIGHT-PATTERSON AIR FORCE BASE

OHIO



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UNEDITED ROUGH DRAFT TRANSLATION

ATLAS OF THE USSR

BY: F. M. Kozlov

English Pages: 7

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pp 65-68

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Date 27 Feb. 19 63

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Atlas of the USSR

by

F. M. Kozlov

The Central Administration of Geodesy and Cartography has published a large, very inclusive atlas of the USSR* which gives very full and varied information about the geography of the Soviet Union. By its contents the atlas falls into the complex group, and it is intended for a broad circle of readers as a cartographic reference work.

In the making of the atlas there took part many scientific workers of the respective areas of knowledge and cartography of the Scientific-Editorial Cartography Section of the GUGK (Central Administration of Geodesy and Cartography).

The general editing of the atlas was accomplished by an editorial group which consisted of A. N. Baranov (supervisor of group) and S. I. Shurov (Assistant supervisor) and the members of the editorial staff G. V. Artamonov, V. A. Bashlavin, T. N. Gumbina, I. V. Gurevich, D. A. Lapin, V. N. Lysyuk, M. I. Nikishov, M. I. Svinarenko, S. N. Soliatov, N. M. Terekhov, Yu. V. Filippov. The responsible editor was S. N. Teplova.

The front part of the atlas contains: the foreword, conventional symbols, the map and the scheme of the politico-administrative division of the USSR.

The maps of the atlas in accordance with their content are arranged in the following three sections.

1. Geographical reference maps (33 maps), compiled with the scales 1 : 3,000,000, 1 : 1,400,000, and 1 : 8,000,000 cover the separate geographical

* The format of the atlas is 28 x 39 cm with 332 pages including index. Compiled and arranged by the NEKCH. Printed in 1962. 25,000 copies. Pr. 5 r.

regions of the USSR. They contain for their respective scales detailed information on the hydrography, inhabited points ways of communication, politico-administrative division, and the relief of the dry land and bottoms of the seas. The relief of the dry land on the maps is indicated by contour lines and layer coloring in basic steps of altitude. The hypsometric scales are compiled as applicable to the peculiarities of the relief of each region. At the end of each section there is included a map of the time zones.

2. Maps of the natural resources (on 31 pages), as depends on the subject and the complexity of the content, are compiled in scales from 1 : 17,000,000 to 1 : 35,000,000. They reflect the wide variety of natural conditions of the country. The physical map of the USSR gives a general presentation of the hydrography, the orographic structure of the USSR, and the relief of the bottom of the seas and adjacent part of the oceans. On the hydrological map of the surface waters of the land there are marked out the basic types of the yearly regimes of the rivers and there are shown the amplitude of the fluctuation of the river levees over periods of many years, as well as the hydrographic characteristics of the main rivers of the USSR, and the hydrochemical system of the rivers of the Soviet Union. On the map labeled "Earthquakes and Volcanoes" there are given the boundaries of the seismic zones, indicating the intensity of the earthquakes in the focus and the depths of the foci of the earthquakes. A small scale is given and the active and extinct volcanoes are shown. In a list included in the map there are shown the main active Volcanoes with indications of the years and character of their eruptions. The geological map, besides the basic geological systems gives a visual presentation of the intrusive rocks. On it there is given a geochronical table of the eras and systems.

On the map "Glaciation and Permafrost" there are shown the limits of glaciations, the genetic types of underground ice, and the boundaries of the temperature zones of perennial permafrost. The map is accomplished by a brief explanatory text. On the map of the quaternary precipitations there are shown the boundaries of the glaciations and the quaternary transgressions. Beside this there are indicated on it the regional glacial accumulations, glacial dislocations and large glacial erosions, as well as the places where sea fauna are found, the places of flora, paleolithic accumulations, etc. On the tectonic map there delineated the Atlantic and Pacific segments, the coverings of the platforms with pre-Caledonian and Paleozoci ages of the base, tectonic structure and magmatic formations. On the map of useful minerals there are shown the main deposits, those being operated and the explored ones. There are indicated the regions of the hard and soft coal. By the color of the sign it is indicated whether they are combustible, mineral, or non mineral. On the geomorphological map there are shown the structure elements of the mainland, the morphogenetic types of the relief, and the forms of the relief. The age and the boundaries of the relief are shown, and of the glaciations, the distribution of the ocean plains, the perennial permafrost, and the perennial ice covers. There is also given the geomorphological characteristics of the bottom of the seas and oceans. The climatic characteristics of the USSR are shown on six pages of the atlas. The map of the climatic regions is given in accordance with the classification of B. P. Alisov, at the basis of which are placed the peculiarities of the radiation system and the circulation of the atmosphere. On the map also are shown the boundaries of the climatic belts, the regions, and the subregions. The dividing into regions according to climate is given on the background of the zones of vegetation. Further on are maps of the temperature of the air and solar radiation, of the average daily temperatures of the air, of the frost

free period, of the snow covering, of the precipitations, of the radiation balance, and of the pressure of the air. The soil map gives detailed characteristics of the variations of the soil on the plains and in the mountain regions. On it there is given information of the agricultural use of the soil according to zones. The phenological maps are subdivided into the following. Maps of the sowing and ripening of the spring wheat, on which, besides the indications of the periods of sowing and ripening there are given the northern boundary of these sowings from observation in actual experience of the Stat variety-testing areas, and the average dates are given of the beginning of the phases for spring wheat. There are maps of the periods of the blossoming of the bird-cherry, and in the south of the USSR, of the cherry. A text explains the significance of the blossoming of this vegetation as a very effective complex indicator of the spring development of nature. On the maps of the distribution of plant life there are indicated the areas of the vegetation associations which characterize the European and Asiatic parts of the USSR. On the vegetation map there are given mainly the zonal characteristics of the vegetation of the plains and mountain lands. On the maps of the forests there is shown the prevailing nature of the forest, rarities, coniferous, and deciduous, field-protecting strips, etc. On the insert of the diagram there is shown the percentage relationship of the main woody vegetation, and in the text there are listed the rare and survival varieties of forest growth, and there are shown the places of their distribution. The zoogeographic maps give a presentation of the fauna subdivision of the territory of the USSR, of the distribution of some European, Siberian, and Central-Asian animals, endemic kinds of animals, and fresh-water and salt-water fish, and about the natural distribution and acclimatization of rare and valuable animals.

3. The section of economic maps, which occupy 52 pages of the atlas, consist of the following maps: map of the peoples, on which there are indicated the linguistic families and groups; densities of the population, where with a color background there is shown the density of the rural population, and with circles of different size the settlement of the city type; the ways of communication with information of the railroads and highways, navigable rivers, and the most important sea routes; and air communication routes. The rest of the maps are distributed among two groups: 1) maps of the distribution of the basic branches of industry and agriculture and 2) maps of the separate regions of the USSR. On the maps of the trades there is reflected the kind of industry—fuel, chemical, oil-refining, glass-ceramic, lumbering, paper-making, building-material, food and light industry; electrical stations; ferrous and nonferrous metallurgy; and machine building and metal working. There is also shown the distribution of grain, fruit, and industry-material cultures and animal raising. On the economic regional maps of the separate regions of the SSSR, compiled in accordance with the Union republics and the RSFSR, and also in agreement with the new network of huge economic regions of the RSFSR (scales 1 : 3,000,000 up to 1 : 6,000,000) there is reflected the processing and extracting industry, as well as agriculture in accordance with the regions of specialization. The dimensions of the industrial points of the processing industry are established as to their dependence on the number of people living in them. The workable useful minerals are shown by conventional signs of a single dimension. On the maps there are included the huge hydroelectric and heat-power-electric stations, located outside of the great settled points, and there are shown the basic kinds of modern transportation with the exception of air transportation.

On the economic maps, besides the present status, there is reflected the state of development of the branches of industry of 1960, and for agriculture as of 1959. Information is also given about the outlook for their development in the seven-year plan. A section of these maps is topped off with a map of the basic construction of the seven-year plan (1959-1965) on which there is shown the new construction of industrial objects, and also the expandable and remodelable industrial enterprises.

At the end of the atlas there is included a register of geographic names containing about 25,000 such to be found in the atlas.

In compiling the atlas there were used the newest cartographic and literary sources, and also reference materials published mainly up to June of 1961. The pages of the atlas are held together by a method of fastening without sewing and are included in leatherette binding.

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